

## Recovery Plan Action Status

**Plan Name:** Michigan Monkey-flower

**Plan Status:** Final

**Plan Date:** 17-Sep-97

**Lead Agency:** USFWS

**Lead Office:** East Lansing Ecological Services Field Office

(517)  
351-2555 )

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Michigan monkey-flower (Mimulus michiganensis)	1	11	Landowner notification	Ongoing Current	FY 1995 - FY 1999		Botanical Gardens	Work type not yet selected	Labor type not yet selected	Can be coordinated with current Landowner Contact Program.
Michigan monkey-flower (Mimulus michiganensis)	1	121	Preparation and distribution of educational materials to agencies and citizens	Ongoing Current	FY 1995 - FY 1999		Botanical Gardens	Work type not yet selected	Labor type not yet selected	Can be coordinated with Landowner Contact Program for other species.
Michigan monkey-flower (Mimulus michiganensis)	1	122	Communication of relevant scientific findings to managers and public	Ongoing Not Current	FY 1995 - FY 1999		Botanical Gardens	Work type not yet selected	Labor type not yet selected	Can be coordinated with Landowner Contact Program for other species.
Michigan monkey-flower (Mimulus michiganensis)	1	123	Preparation and dissemination of specific management guidelines	Ongoing Not Current	FY 1995 - FY 1999		Botanical Gardens	Work type not yet selected	Labor type not yet selected	Can be coordinated with Landowner Contact Program for other species.
Michigan monkey-flower (Mimulus michiganensis)	2	13	Development of management plans for occurrences on public land	Ongoing Not Current	FY 1995 - FY 1999			Work type not yet selected	Labor type not yet selected	Can be done in coordination with Landowner Contact Programs. Management plans must be site-specific and can be prepared with assistance from MNFI.
Michigan monkey-flower (Mimulus michiganensis)	2	14	Registry agreements and other contractual arrangements for habitat and colony protection	Ongoing Not Current	FY 1995 - FY 1999		Botanical Gardens	Work type not yet selected	Labor type not yet selected	Can be accomplished by Michigan Natural Heritage Program. Coordinate if necessary with TNC registry program.
Michigan monkey-flower (Mimulus michiganensis)	2	15	Land purchase	Ongoing Current	FY 1995 - FY 1999		Botanical Gardens, U.S. Fish and Wildlife Service	Acquisition	Labor type not yet selected	Acquisition is partly dependent on the identification of new occurrences.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Michigan monkey-flower (Mimulus michiganensis)	2	16	Implement protection strategies for all identified sites	Ongoing Not Current	FY 1995 - FY 1999		Botanical Gardens	Work type not yet selected	Labor type not yet selected	16-1&16-17
Michigan monkey-flower (Mimulus michiganensis)	2	21	Field surveys of historical sites	Ongoing Not Current	FY 1995 - FY 1999		Botanical Gardens	Work type not yet selected	Labor type not yet selected	
Michigan monkey-flower (Mimulus michiganensis)	2	22	Field surveys of known extant sites	Ongoing Current	FY 1995 - FY 1999		Botanical Gardens	Management: Habitat Maintenance and Manipulation	Labor type not yet selected	
Michigan monkey-flower (Mimulus michiganensis)	2	23	Field surveys to locate new sites	Ongoing Not Current	FY 1995 - FY 1999		Botanical Gardens	Work type not yet selected	Labor type not yet selected	
Michigan monkey-flower (Mimulus michiganensis)	2	31	Biosystematic research to determine most appropriate taxonomic classification	Ongoing Current	FY 1995 - FY 1999		Botanical Gardens	Work type not yet selected	Labor type not yet selected	MNFI to coordinate research.
Michigan monkey-flower (Mimulus michiganensis)	2	41	Demographic study of populations	Ongoing Not Current	FY 1995 - FY 1999		Botanical Gardens	Work type not yet selected	Labor type not yet selected	Research will possibly be conducted in collaboration with MNFI
Michigan monkey-flower (Mimulus michiganensis)	2	42	Physiological studies	Ongoing Current	FY 1995 - FY 1999		Botanical Gardens	Work type not yet selected	Labor type not yet selected	
Michigan monkey-flower (Mimulus michiganensis)	2	43	Breeding system studies	Ongoing Current	FY 1995 - FY 1999		Botanical Gardens	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Michigan monkey-flower ( <i>Mimulus michiganensis</i> )	2	44	Genetic studies	Ongoing Current	FY 1995 - FY 1999		Botanical Gardens	Research: Taxonomic Studies	Labor type not yet selected	Recent taxonomic research studying the genetic relationship between <i>Mimulus glabratus</i> var. <i>michiganensis</i> and two related species theoretically involved in its origin, <i>M. glabratus</i> var. <i>jamesii</i> and <i>M. guttatus</i> , concur with earlier morphological and crossing studies and support the elevation in rank from variety to species. As of 2003, <i>M. glabratus</i> var. <i>michiganensis</i> has been elevated to the species ranks and is now classified as <i>M. michiganensis</i> (Posto, A.L. and L.A. Prather. 2003. The Evolutionary and Taxonomic Implications of RAPD Data on the Genetic Relationship of <i>M. michiganensis</i> . Systematic Botany 28(1): pp. 172-178).
Michigan monkey-flower ( <i>Mimulus michiganensis</i> )	2	45	Population/occurrence monitoring.	Ongoing Current	FY 1995 - FY 1999		Botanical Gardens	Work type not yet selected	Labor type not yet selected	